## (19) World Intellectual Property Organization International Bureau



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(43) International Publication Date 26 May 2005 (26.05.2005)

(10) International Publication Number WO 2005/047503 A1

(51) International Patent Classification7: C07K 7/04

C12N 15/10. (74) Agent: BRAUN, André; Braun & Partner, Reusstrasse 22,

(21) International Application Number:

PCT/EP2003/012783

(22) International Filing Date:

15 November 2003 (15.11.2003)

(25) Filing Language:

English

(26) Publication Language:

English

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CH-4054 Basel (CH). (81) Designated States (national): AR, AG, AL, AM, AT, AU,

AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,

GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR,

KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU,

SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA.

(84) Designated States (regional): ARIPO patent (BW, GH, GM, KB, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FL, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

## Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazene.

(54) Title: TEMPLATE FIXED BETA-HAIRPIN LOOP MIMETICS AND THEIR USE IN PHAGE DISPLAY

(S7) Abstract: Template-fixed β-hairpin mimetics of the general formula R¹-Cys-Z-Cys-R² (I) wherein the two Cys residues are bridged by a disulfide bond thereby forming a cyclic peptide; R1 and R2 are preferably Glu-Thr and Thr-Lys; or Lys-Thr and Thr-Glu; 😭 or Thr-Giu and Lys-Thr; or Thr-Lys and Giu-Thr; or Leu-Giu and Lys-Val; or Val-Lys and Giu-Leu; or Giu-Leu and Val-Lys; or Lys-Leu and Val-Glu; or Asn-Gly and Lys-Val; or Val-Gly and Lys-Asn; or Gly-Asn and Val-Lys; or Gly-Val and Asn-Lys; or Gly-Gly and Gly-Gly; or Glu-Leu-Lys and Glu-Val-Lys; or Lys-Val-Glu and Lys-Leu-Glu; or Leu-Glu-Lys and Glu-Lys-Val; or Val-Lys-Glu and Lys-Glu-Leu; or Glu-Lys-Leu and Val-Glu-Lys; or Lys-Glu-Val and Leu-Lys-Glu; or Lys-Glu-Leu and Val-Lys-Giu; or Glu-Lys-Val and Leu-Glu-Lys; or Lys-Val-Gly and Gly-Leu-Glu; or Glu-Leu-Gly and Gly-Val-Lys; or Val-Lys-Gly and Gly-Glu-Leu; or Leu-Glu-Gly and Gly-Lys-Val; or Val-Gly-Lys and Glu-Gly-Leu; or Leu-Gly-Glu and Lys-Gly-Val; or Gly-Gly-Gly and Gly-Gly-Gly; and Z is a chain of n amino acid residues with n being an integer form 4 to 20 and with each of these n amino if and Gly-Gly; and L is a chain of it continued from any naturally occurring L. α-amino acid are provided. Lavanus continued acid residues being, independently, derived from any naturally occurring L. α-amino acid are provided. Lavanus continued in plurality of these templates can be used for the construction of phage display derived template-fixed β-hairpin mimetics generating plurality of these templates can be used for the construction of phage display derived template-fixed β-hairpin mimetics generating plurality of these templates can be used for the construction of phage display derived template-fixed β-hairpin mimetics generating the advantage of screening of large phage display of the construction of phage display derived template-fixed β-hairpin mimetics generating the advantage of screening of large phage display of the construction of phage display derived template-fixed β-hairpin mimetics generating the advantage of screening of large phage display are display and the construction of phage display derived template-fixed β-hairpin mimetics generating the advantage of screening of large phage display are display and the construction of phage display derived template-fixed β-hairpin mimetics generating the advantage of screening of large phage display are display and the construction of phage display are display as a second of the construction of phage display are display as a second of the construction of phage display are displayed as a second of the construction of phage displayed are displayed as a second of the construction of phage displayed are displayed as a second of the construction of the construc derived template-fixed \(\beta\)-hairpin libraries which in turn considerably facilitates structure-activity studies, and hence the discovery of new molecules with potent activities and with novel selectivities towards different types of targets.